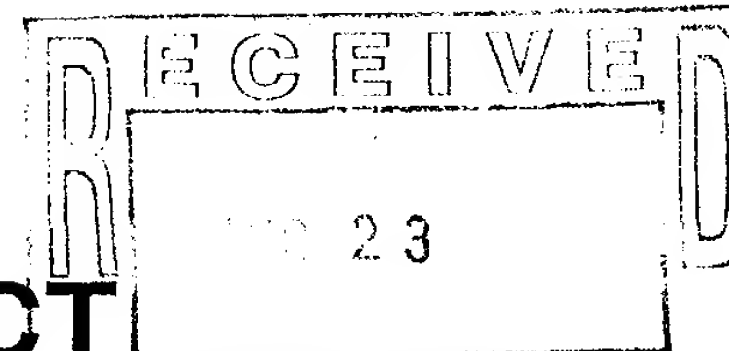


# PATENT COOPERATION TREATY



From the INTERNATIONAL SEARCHING AUTHORITY

To:  
 Sterne, Kessler, Goldstein & Fox  
 P.L.L.C.  
 Attn. Kessler, Edward J.  
 Suite 600  
 1100 New York Avenue, N.W.  
 Washington, D.C. 20005-3934  
 UNITED STATES OF AMERICA

INVITATION TO PAY ADDITIONAL FEES

(PCT Article 17(3)(a) and Rule 40.1)

**COPY**

Applicant's or agent's file reference <b>1823.015PC03</b>	Date of mailing (day/month/year) <b>16/08/2001</b>
International application No. <b>PCT/US 01/ 09187</b>	International filing date (day/month/year) <b>23/03/2001</b>
Applicant  <b>CROSS MATCH TECHNOLOGIES, INC.</b>	

1. This International Searching Authority

(i) considers that there are 07 (number of) inventions claimed in the international application covered by the claims indicated ~~xxx~~ on the extra sheet:

and it considers that the international application does not comply with the requirements of unity of invention (Rules 13.1, 13.2 and 13.3) for the reasons indicated ~~xxx~~ on the extra sheet:

*Add'l Search Fee (4/30/01)*

(ii) ☒ has carried out a partial international search (see Annex) ☐ will establish the international search report on those parts of the international application which relate to the invention first mentioned in claims Nos.:  
**1-48, 54**

(iii) will establish the international search report on the other parts of the international application only if, and to the extent to which, additional fees are paid

2. The applicant is hereby **invited**, within the time limit indicated above, to pay the amount indicated below:

EUR 945,00 x 06 = EUR 5.670,00  
 Fee per additional invention      number of additional inventions      total amount of additional fees

Or, \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_

The applicant is informed that, according to Rule 40.2(c), **the payment of any additional fee may be made under protest**, i.e., a reasoned statement to the effect that the international application complies with the requirement of unity of invention or that the amount of the required additional fee is excessive.

3. ☐ Claim(s) Nos. \_\_\_\_\_ have been found to be unsearchable under Article 17(2)(b) because of defects under Article 17(2)(a) and therefore have not been included with any invention.

Name and mailing address of the International Searching Authority  
 European Patent Office, P.B. 5818 Patentlaan 2  
 NL-2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer  
**Ahmed Soliman**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-48,54

A biometric sensing apparatus comprising a piezoelectric ceramic sensor and a processor that receives an input from said sensor

2. Claims: 49-53

A multiplexer for a biometric sensor array comprising a plurality of parallel first conductors, a plurality of parallel second conductors and a plurality of switches

3. Claims: 55-56

An apparatus comprising a switch for coupling a source of power to a device that utilizes a piezoelectric effect to wake up the device when the device is turned off.

4. Claims: 57-58

An apparatus comprising a switch that utilizes a piezoelectric effect to make a selection on an interconnected viewing device.

5. Claim : 59

An apparatus comprising a piezoelectric pointing device wherein a centroid of a finger in contact with said device is used to point on an interconnected viewing device.

6. Claims: 60-61

A system comprising a public service layer for use with a wireless communication stack.

7. Claim : 62

A system comprising a constellation of BLUETOOTH compliant devices having a public service layer.

The above groups of claims have no common feature. The features of the above groups of claims solve different technical problems. Therefore no common inventive concept can be present by way of solution to a common problem. Consequently the application does not comply with the requirement of unity of invention (see rule 13 PCT.)

# Patent Family Annex

Information on patent family members

International Application No

PCT/US 01/09187

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5311095	A	10-05-1994	US 5744898 A	28-04-1998
US 4394773	A	19-07-1983	DE 3161635 D	19-01-1984
			EP 0044489 A	27-01-1982
US 5971927	A	26-10-1999	JP 10118068 A	12-05-1998
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US 5273045	A	28-12-1993	JP 4347147 A	02-12-1992
US 5623930	A	29-04-1997	AU 5573496 A	21-11-1996
			WO 9634562 A	07-11-1996
DE 19750179	A	25-02-1999	WO 9910874 A	04-03-1999
			EP 1005691 A	07-06-2000
JP 07059769	A	07-03-1995	NONE	
EP 0649116	A	19-04-1995	JP 2557796 B	27-11-1996
			JP 8062068 A	08-03-1996
			DE 69422579 D	17-02-2000
			DE 69422579 T	06-07-2000
			US 5515738 A	14-05-1996
US 4316115	A	16-02-1982	CA 1134939 A	02-11-1982
US 5421335	A	06-06-1995	NONE	

1. The present communication is an Annex to the invitation to pay additional fees (Form PCT/ISA/206). It shows the results of the international search established on the parts of the international application which relate to the invention first mentioned in claims Nos.:  
**1-48, 54**
2. This communication is not the international search report which will be established according to Article 18 and Rule 43.
3. If the applicant does not pay any additional search fees, the information appearing in this communication will be considered as the result of the international search and will be included as such in the international search report.
4. If the applicant pays additional fees, the international search report will contain both the information appearing in this communication and the results of the international search on other parts of the international application for which such fees will have been paid.

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 311 095 A (SMITH STEPHEN W ET AL) 10 May 1994 (1994-05-10)	1, 4-10, 14-16, 18-20, 24, 27, 54
A	the whole document	2, 3, 11-13, 17, 21-23, 25, 26, 28-48
X	US 4 394 773 A (RUELL HARTWIG) 19 July 1983 (1983-07-19)	1-3, 6, 10, 13, 18, 21, 23, 27, 32, 54
A	the whole document	4, 5, 7, 8, 11, 12, 14-17, 19, 20, 22, 24-26, 28-31, 33-48

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Annex to Form PCT/ISA/206  
COMMUNICATION RELATING TO THE RESULTS  
OF THE PATENT INTERNATIONAL SEARCH

International Application No

PCT/US 01/09187

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 971 927 A (MINE YOSHITAKA) 26 October 1999 (1999-10-26)  abstract; figures 7-9,15 ----	4,6-9, 38,39, 42-47
X	PATENT ABSTRACTS OF JAPAN vol. 1997, no. 04, 30 April 1997 (1997-04-30) & JP 08 336534 A (TOSHIBA CORP), 24 December 1996 (1996-12-24) abstract ----	1,4,6-9, 27,38,39
X	US 5 273 045 A (CHIHARA KUNIHIRO ET AL) 28 December 1993 (1993-12-28) abstract ----	1,4,8, 27,38,39
A	US 5 623 930 A (GURACAR ISMAYIL M ET AL) 29 April 1997 (1997-04-29) abstract ----	6-9, 36-39
A	DE 197 50 179 A (FRAUNHOFER GES FORSCHUNG) 25 February 1999 (1999-02-25) claims 1,10 ----	14-16,26
X	PATENT ABSTRACTS OF JAPAN vol. 1995, no. 06, 31 July 1995 (1995-07-31) & JP 07 059769 A (HITACHI MEDICAL CORP), 7 March 1995 (1995-03-07) abstract ----	27,29,54
X	EP 0 649 116 A (ENIX CORP) 19 April 1995 (1995-04-19) abstract ----	48
X	US 4 316 115 A (WILSON DAVID T ET AL) 16 February 1982 (1982-02-16) column 1, line 1 -column 3, line 2 ----	1,19-21, 24,27
A	US 5 421 335 A (WILD JOHN J) 6 June 1995 (1995-06-06) abstract -----	1,4,5